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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS	3	AUG 06	FSTA enhanced with new thesaurus edition
NEWS	4	AUG 13	CA/Caplus enhanced with additional kind codes for granted patents
NEWS	5	AUG 20	CA/Caplus enhanced with CAS indexing in pre-1907 records
NEWS	6	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS	7	AUG 27	USPATOLD now available on STN
NEWS	8	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS	9	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS	10	SEP 13	FORIS renamed to SOFIS
NEWS	11	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS	12	SEP 17	CA/Caplus enhanced with printed CA page images from 1967-1998
NEWS	13	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS	14	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS	15	OCT 02	CA/Caplus enhanced with pre-1907 records from Chemisches Zentralblatt
NEWS	16	OCT 19	BEILSTEIN updated with new compounds
NEWS	17	NOV 15	Derwent Indian patent publication number format enhanced
NEWS	18	NOV 19	WPIX enhanced with XML display format
NEWS	19	NOV 30	ICSD reloaded with enhancements
NEWS	20	DEC 04	LINPADOCDB now available on STN
NEWS	21	DEC 14	BEILSTEIN pricing structure to change
NEWS	22	DEC 17	USPATOLD added to additional database clusters
NEWS	23	DEC 17	IMSDRUGCONF removed from database clusters and STN
NEWS	24	DEC 17	DGENE now includes more than 10 million sequences
NEWS	25	DEC 17	TOXCENTER enhanced with 2008 MeSH vocabulary in MEDLINE segment
NEWS	26	DEC 17	MEDLINE and LMEDLINE updated with 2008 MeSH vocabulary
NEWS	27	DEC 17	CA/Caplus enhanced with new custom IPC display formats
NEWS	28	DEC 17	STN Viewer enhanced with full-text patent content from USPATOLD
NEWS	29	JAN 02	STN pricing information for 2008 now available
NEWS	30	JAN 16	CAS patent coverage enhanced to include exemplified prophetic substances
NEWS	31	JAN 28	USPATFULL, USPAT2, and USPATOLD enhanced with new

11549293

custom IPC display formats  
NEWS 32 JAN 28 MARPAT searching enhanced  
NEWS 33 JAN 28 USGENE now provides USPTO sequence data within 3 days  
of publication  
NEWS 34 JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment  
NEWS 35 JAN 28 MEDLINE and LMEDLINE reloaded with enhancements  
NEWS 36 FEB 08 STN Express, Version 8.3, now available

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 24 JANUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS LOGIN Welcome Banner and News Items  
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:59:57 ON 14 FEB 2008

=>

Uploading

THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE

Do you want to switch to the Registry File?

Choice (Y/n):

Switching to the Registry File...

Some commands only work in certain files. For example, the EXPAND  
command can only be used to look at the index in a file which has an  
index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of  
commands which can be used in this file.

=> FILE REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:00:26 ON 14 FEB 2008

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Property values tagged with IC are from the ZIC/VINITI data file  
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 FEB 2008 HIGHEST RN 1003293-96-6  
DICTIONARY FILE UPDATES: 13 FEB 2008 HIGHEST RN 1003293-96-6

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New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

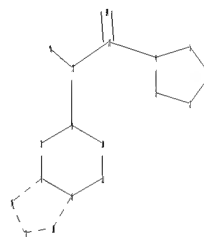
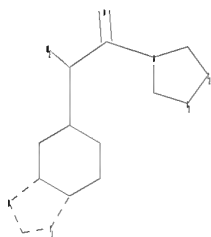
Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\10560771.str



chain nodes :

12 13 14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 16 17 18

chain bonds :

4-13 9-12 12-13 12-15 13-14

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 6-18 7-8 7-16 8-9 9-10 10-11 16-17 17-18

11549293

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 4-13 6-7 6-11 6-18 7-8 7-16 8-9 9-10 9-12 10-11  
12-13 12-15 13-14 16-17 17-18

isolated ring systems :

containing 1 : 6 :

G1:O,S,N,NH

G2:CH<sub>2</sub>,CH,CF<sub>2</sub>,CF<sub>3</sub>

G3:CH<sub>2</sub>,CF<sub>2</sub>,CF<sub>3</sub>,SO<sub>2</sub>,SO<sub>3</sub>H,S

Match level :

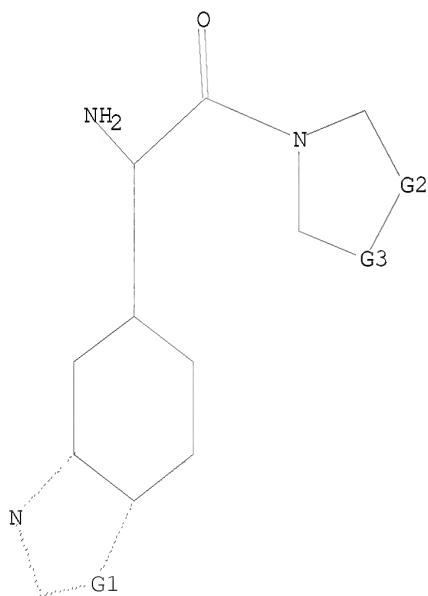
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 O,S,N,NH

G2 CH<sub>2</sub>,CH,CF<sub>2</sub>,CF<sub>3</sub>

G3 CH<sub>2</sub>,CF<sub>2</sub>,CF<sub>3</sub>,SO<sub>2</sub>,SO<sub>3</sub>H,S

Structure attributes must be viewed using STN Express query preparation.

11549293

=> s l1

SAMPLE SEARCH INITIATED 11:00:48 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 9 TO 360

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 sss full

FULL SEARCH INITIATED 11:00:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 161 TO ITERATE

100.0% PROCESSED 161 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.01

L3 7 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'HCAPLUS' ENTERED AT 11:01:00 ON 14 FEB 2008

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FILE COVERS 1907 - 14 Feb 2008 VOL 148 ISS 7

FILE LAST UPDATED: 13 Feb 2008 (20080213/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 5 L3

=> s l4 and py<=2003

11549293

23976331 PY<=2003

L5 5 L4 AND PY<=2003

=> d 14 ibib abs hitstr tot

L4 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:2864 HCAPLUS

DOCUMENT NUMBER: 140:59935

TITLE: Preparation of crystalline (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1-pyrrolidinocarbonyl)-ethyl)-benzimidazole esters and/or salts for use as antithrombotic agents

INVENTOR(S): Linz, Guenter; Sieger, Peter; Schreiner, Gunnar; Rall, Werner; Schmid, Rolf

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Gmbh & Co. Kg, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004000818	A1	20031231	WO 2003-EP6317	20030616
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10227666	A1	20040108	DE 2002-10227666	20020620
CA 2485545	A1	20031231	CA 2003-2485545	20030616
AU 2003237945	A1	20040106	AU 2003-237945	20030616
EP 1529035	A1	20050511	EP 2003-735629	20030616
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006508037	T	20060309	JP 2004-514726	20030616
US 2004010026	A1	20040115	US 2003-463033	20030617
US 7169934	B2	20070130		
US 2007099974	A1	20070503	US 2006-610187	20061213
US 7294721	B2	20071113		
PRIORITY APPLN. INFO.:			DE 2002-10227666	A 20020620
			US 2002-395188P	P 20020711
			WO 2003-EP6317	W 20030616
			US 2003-463033	A3 20030617

OTHER SOURCE(S): MARPAT 140:59935

AB The invention relates to the crystalline forms of compds. (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)-ethyl)-benzimidazole and monohydrochloride thereof, to methods for the production thereof, and to their use as medicaments having an antithrombotic action (no data). Thus, (R)-2-(4-

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cyanophenylaminomethyl)-1-methyl-5-[1-amino-1-(pyrrolidineocarbonyl)-ethyl]benzimidazole was simultaneously N-alkylated and CN-reduced/aminated using BrCH<sub>2</sub>C(O)OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> in N-methylpyrrolidinone, Pr acetate, and diisopropylethylamine; the resulting ester product was first isolated as the hydrochloride, and then as the 4-toluenesulfonic acid salt, which was deesterified to give the free base. The Et ester was similarly prepared. Crystal structure data were given for the free base and the monohydrochloride forms.

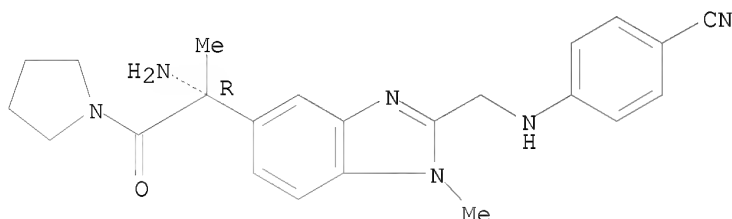
IT 253797-00-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation and x-ray crystallog. structure of 2-(4-amidinophenylaminomethyl))-1-methyl-5-(1-(carboxymethylamino)benzimidazole esters and/or salts for use as antithrombotic agents)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:2693 HCAPLUS

DOCUMENT NUMBER: 140:53413

TITLE: Benzimidazole derivatives for the treatment of systemic inflammatory response syndrome

INVENTOR(S): Ries, Uwe; Wienen, Wolfgang; Schulz, Uwe

PATENT ASSIGNEE(S): Boehringer Ingelheim, Germany

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000310	A1	20031231	WO 2003-EP6318	20030616
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,			

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FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10227668	A1	20040108	DE 2002-10227668	20020620
CA 2489545	A1	20031231	CA 2003-2489545	20030616
AU 2003278945	A1	20040106	AU 2003-278945	20030616
EP 1517687	A1	20050330	EP 2003-740255	20030616
EP 1517687	B1	20070620		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006514603	T	20060511	JP 2004-514727	20030616
AT 365038	T	20070715	AT 2003-740255	20030616
ES 2289305	T3	20080201	ES 2003-740255	20030616
US 2004023975	A1	20040205	US 2003-600055	20030620
PRIORITY APPLN. INFO.:			DE 2002-10227668	A 20020620
			US 2002-400166P	P 20020801
			WO 2003-EP6318	W 20030616

OTHER SOURCE(S): MARPAT 140:53413

AB The invention discloses the use of benzimidazole derivs. for producing a medicament used for treating the systemic inflammatory response syndrome and particularly sepsis. Preparation of (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)ethyl]benzimidazole hydrochloride is described.

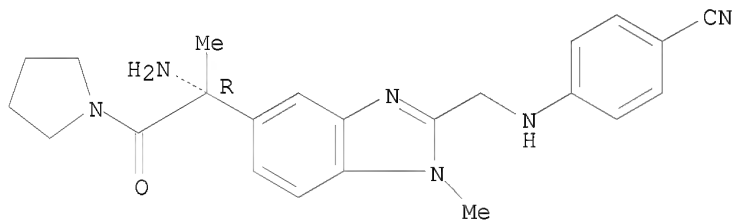
IT 253797-00-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(benzimidazole derivs. for treatment of systemic inflammatory response syndrome)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(4-cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:467997 HCAPLUS

DOCUMENT NUMBER: 135:61338

TITLE: Preparation of 2-(4-amidinophenylaminomethyl)benzimidazoles as antithrombotics

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Hael, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 28 pp.

CODEN: GWXXBX



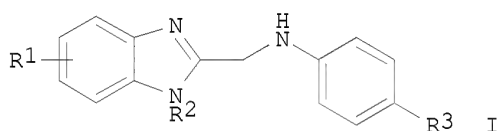
11549293

DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19962329	A1	20010628	DE 1999-19962329	19991223
US 2001006977	A1	20010705	US 2000-735159	20001212
US 6451832	B2	20020917		
CA 2393916	A1	20010705	CA 2000-2393916	20001216
WO 2001047896	A1	20010705	WO 2000-EP12841	20001216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1244636	A1	20021002	EP 2000-983342	20001216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519129	T	20030617	JP 2001-549368	20001216
MX 2002PA06299	A	20021209	MX 2002-PA6299	20020621
US 2003004356	A1	20030102	US 2002-188952	20020703
US 6593355	B2	20030715		

PRIORITY APPLN. INFO.:  
 DE 1999-19962329 A 19991223  
 US 2000-175163P P 20000107  
 US 2000-735159 A1 20001212  
 WO 2000-EP12841 W 20001216

OTHER SOURCE(S): MARPAT 135:61338  
 GI



AB Title compds. [I; R1 = alkyl, fluoroalkyl, pyrrolidinocarbonylalkyl, 2,5-dihydropyrrolocarbonylalkyl, aminoalkyl, etc., R2 = alkyl; R3 = carbamidoyl, cyano, (substituted) oxadiazolyl, etc.] and stereoisomers thereof were prepared. Thus, (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(ethoxycarbonylmethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride in H2O was stirred with NaOH for 45 min. at room temperature followed by addition of HCl up to pH = 3.5 to give 100% (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride. Several I extended (doubled) the activated partial thromboplastin time (aPTT) with ED200 = 0.12-0.22 µM.

IT 253797-00-1P 345957-57-5P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

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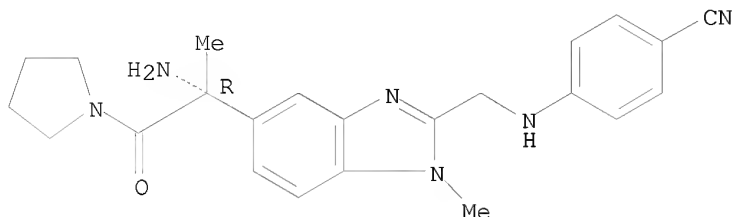
(Reactant or reagent)

(preparation of amidinophenylaminomethylbenzimidazoles as antithrombotics)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(4-cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

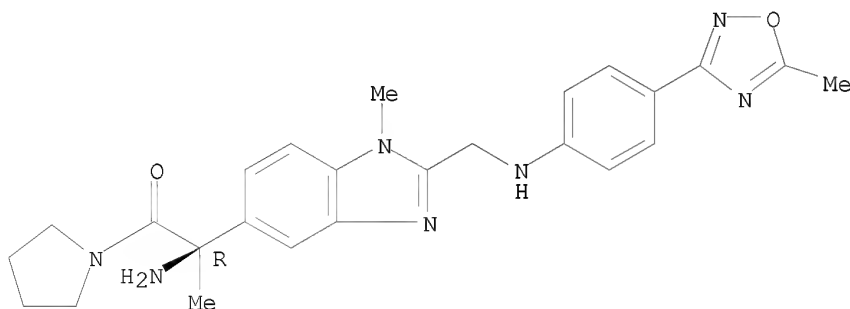
Absolute stereochemistry.



RN 345957-57-5 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:34881 HCAPLUS

DOCUMENT NUMBER: 132:78556

TITLE: Preparation of amidinophenylaminomethylbenzimidazoles as antithrombotics.

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Huel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: PCT Int. Appl., 140 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.

KIND

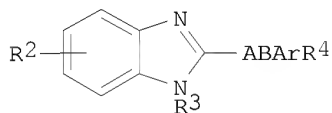
DATE

APPLICATION NO.

DATE

WO 2000001704	A2	20000113	WO 1999-EP4531	19990701
WO 2000001704	A3	20000406		
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19829964	A1	20000105	DE 1998-19829964	19980704
DE 19857202	A1	20000615	DE 1998-19857202	19981211
DE 19912690	A1	20000921	DE 1999-19912690	19990320
CA 2337804	A1	20000113	CA 1999-2337804	19990701
AU 9949033	A	20000124	AU 1999-49033	19990701
AU 763094	B2	20030710		
BR 9911826	A	20010327	BR 1999-11826	19990701
EP 1095025	A2	20010502	EP 1999-932765	19990701
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
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EE 4236	B1	20040216		
JP 2002519429	T	20020702	JP 2000-558106	19990701
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BG 105111	A	20011231	BG 2001-105111	20010103
HR 2001000007	A1	20011231	HR 2001-7	20010103
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HK 1036976	A1	20041119	HK 2001-107199	20011015
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			DE 1998-19857202	A 19981211
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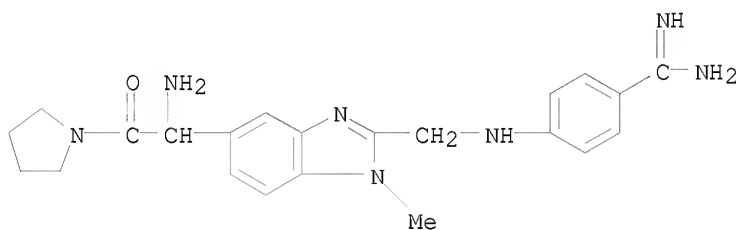
OTHER SOURCE(S): MARPAT 132:78556  
GI



AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, pyrazinylene, pyrimidinylene, pyridazinylene; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, SO, SO<sub>2</sub>; R<sub>2</sub> = R<sub>1</sub>COX, etc.; R<sub>1</sub> = alkoxy, amino, alkylamino, dialkylamino, etc.; X = cycloalkylene; R<sub>3</sub> = H, alkyl; R<sub>4</sub> = cyano, (substituted) amidino], were prepared Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride (multistep preparation

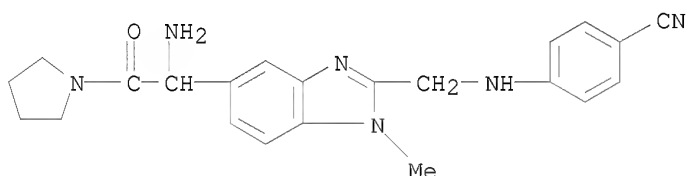
11549293

given) showed aPTT (partial thrombin time) ED200 = 0.12  $\mu$ M.  
IT 253430-83-0P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of amidinophenylaminomethylenzimidazoles as antithrombotics)  
RN 253430-83-0 HCAPLUS  
CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)



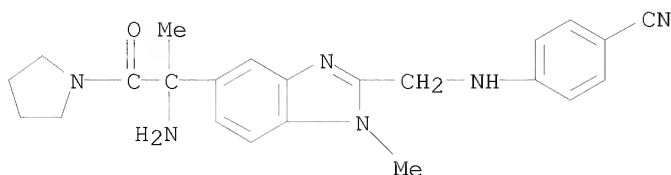
● HCl

IT 253431-62-8P 253431-65-1P 253796-87-1P  
253797-00-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amidinophenylaminomethylenzimidazoles as antithrombotics)  
RN 253431-62-8 HCAPLUS  
CN Pyrrolidine, 1-[amino[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]- (9CI) (CA INDEX NAME)



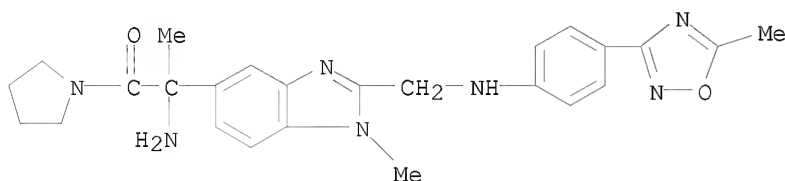
RN 253431-65-1 HCAPLUS  
CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

11549293



RN 253796-87-1 HCAPLUS

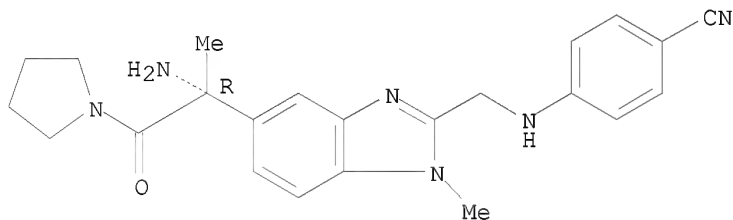
CN Pyrrolidine, 1-[2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)



RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:15648 HCAPLUS

DOCUMENT NUMBER: 132:64257

TITLE: Preparation of amidinophenylaminomethylbenzimidazoles and related compounds as antithrombotics.

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Hael, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 38 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

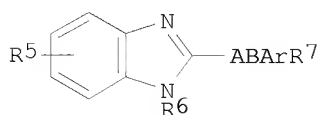
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

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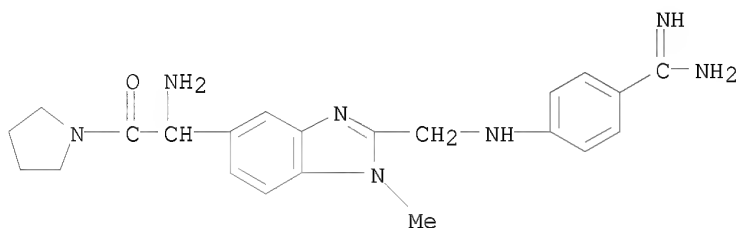
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TW 248435	B	20060201	TW 1999-88110926	19990629
CA 2337804	A1	20000113	CA 1999-2337804	19990701
WO 2000001704	A2	20000113	WO 1999-EP4531	19990701
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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EE 200100009	A	20020617	EE 2001-9	19990701
EE 4236	B1	20040216		
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OTHER SOURCE(S): MARPAT 132:64257  
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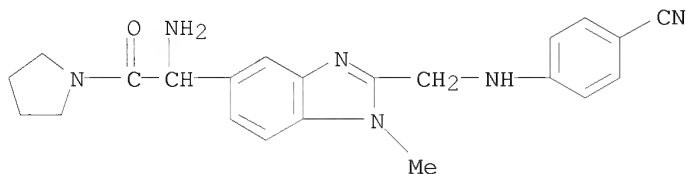
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- AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, etc.; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, sulfinyl, sulfonyl, etc.; R<sub>5</sub> = R<sub>1</sub>COX; X = cycloalkylene; R<sub>1</sub> = (substituted) (di)alkylamino, cycloalkyleneimino, morpholino, piperazino; R<sub>5</sub> = H, alkyl; R<sub>7</sub> = cyano, (substituted) amidino], were prepared Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride [prepared starting from 1-(4-chlorophenyl)-1-cyclopropanecarboxylic acid] showed aPTT (partial thrombin time) ED<sub>200</sub> = 0.12  $\mu$ M.
- IT 253430-83-0P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of amidinophenylaminomethylbenzimidazoles and related compds. as antithrombotics)
- RN 253430-83-0 HCAPLUS
- CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)



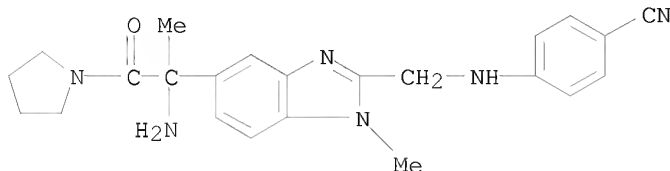
● HCl

- IT 253431-62-8P 253431-65-1P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of amidinophenylaminomethylbenzimidazoles and related compds. as antithrombotics)
- RN 253431-62-8 HCAPLUS
- CN Pyrrolidine, 1-[amino[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]- (9CI) (CA INDEX NAME)



11549293

RN 253431-65-1 HCAPLUS  
CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)



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COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

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provided by InfoChem.

STRUCTURE FILE UPDATES: 13 FEB 2008 HIGHEST RN 1003293-96-6  
DICTIONARY FILE UPDATES: 13 FEB 2008 HIGHEST RN 1003293-96-6

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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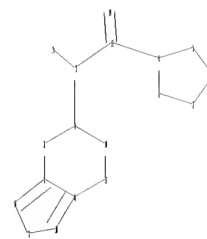
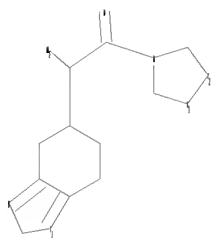
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11549293



chain nodes :  
12 13 14 15  
ring nodes :  
1 2 3 4 5 6 7 8 9 10 11 16 17 18  
chain bonds :  
4-13 9-12 12-13 12-15 13-14  
ring bonds :  
1-2 1-5 2-3 3-4 4-5 6-7 6-11 6-18 7-8 7-16 8-9 9-10 10-11 16-17 17-18  
exact/norm bonds :  
1-2 1-5 2-3 3-4 4-5 4-13 6-7 6-11 6-18 7-8 7-16 8-9 9-10 9-12 10-11  
12-13 12-15 13-14 16-17 17-18  
isolated ring systems :  
containing 1 : 6 :

G1:O,S,N,NH

G2:CH<sub>2</sub>,CH,CF<sub>2</sub>,CF<sub>3</sub>

11549293

G3:CH2,CF2,CF3,SO2,SO3H,S

Match level :

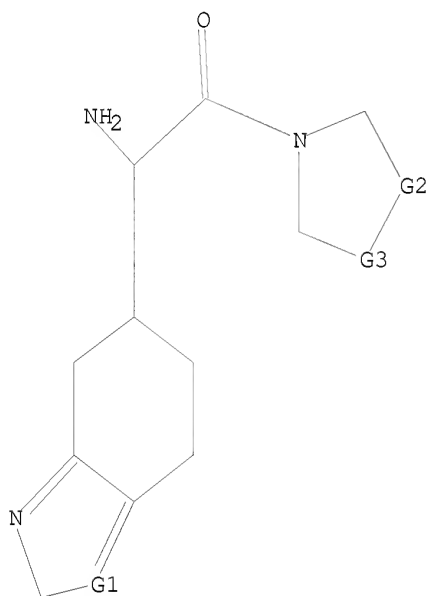
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom  
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom

L6 STRUCTURE UPLOADED

=> d 16

L6 HAS NO ANSWERS

L6 STR



G1 O,S,N,NH

G2 CH<sub>2</sub>,CH,CF<sub>2</sub>,CF<sub>3</sub>

G3 CH<sub>2</sub>,CF<sub>2</sub>,CF<sub>3</sub>,SO<sub>2</sub>,SO<sub>3</sub>H,S

Structure attributes must be viewed using STN Express query preparation.

=> s 16

SAMPLE SEARCH INITIATED 11:06:33 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED 9 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

11549293

PROJECTED ITERATIONS: 9 TO 360  
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

=> s l6 sss full

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FULL SCREEN SEARCH COMPLETED - 161 TO ITERATE

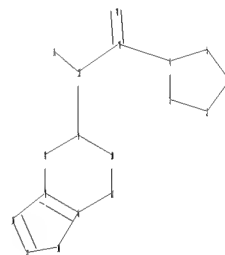
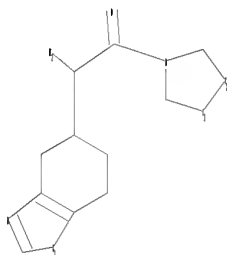
100.0% PROCESSED 161 ITERATIONS  
SEARCH TIME: 00.00.01

0 ANSWERS

L8 0 SEA SSS FUL L6

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chain nodes :

12 13 14 15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 16 17 18

chain bonds :

4-13 9-12 12-13 12-15 13-14

ring bonds :

1-2 1-5 2-3 3-4 4-5 6-7 6-11 6-18 7-8 7-16 8-9 9-10 10-11 16-17 17-18

exact/norm bonds :

1-2 1-5 2-3 3-4 4-5 4-13 6-7 6-11 6-18 7-8 7-16 8-9 9-10 9-12 10-11  
12-13 12-15 13-14 16-17 17-18

isolated ring systems :

containing 1 : 6 :

11549293

G1:O, S, N, NH

G2:CH2, CH, CF2, CF3

G3:CH2, CF2, CF3, SO2, SO3H, S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

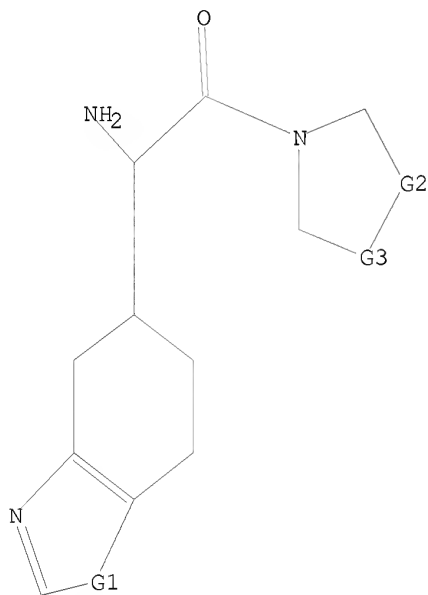
11:Atom 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom

L9 STRUCTURE UPLOADED

=> d 19

L9 HAS NO ANSWERS

L9 STR



G1 O, S, N, NH

G2 CH2, CH, CF2, CF3

G3 CH2, CF2, CF3, SO2, SO3H, S

Structure attributes must be viewed using STN Express query preparation.

=> s 19

SAMPLE SEARCH INITIATED 11:11:29 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 9 TO ITERATE

100.0% PROCESSED

9 ITERATIONS

1 ANSWERS

11549293

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 9 TO 360  
PROJECTED ANSWERS: 1 TO 80

L10 1 SEA SSS SAM L9

=> s l9 sss full

FULL SEARCH INITIATED 11:11:36 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 161 TO ITERATE

100.0% PROCESSED 161 ITERATIONS 25 ANSWERS  
SEARCH TIME: 00.00.01

L11 25 SEA SSS FUL L9

=> FIL HCAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	359.94	589.97

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.00

FILE 'HCAPLUS' ENTERED AT 11:11:41 ON 14 FEB 2008  
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FILE COVERS 1907 - 14 Feb 2008 VOL 148 ISS 7  
FILE LAST UPDATED: 13 Feb 2008 (20080213/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l11

L12 6 L11

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L13 5 L12 AND PY<=2003

11549293

=> s l12 and dipeptidyl peptidase  
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L12 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2004:1156435 HCAPLUS  
DOCUMENT NUMBER: 142:86665  
TITLE: Cyclohexylglycine derivatives as dipeptidyl peptidase  
IV inhibitors for the treatment or prevention of  
diabetes and other dipeptidyl peptidase IV-associated  
diseases  
INVENTOR(S): Edmondson, Scott D.; Mastracchio, Anthony; Parmee,  
Emma R.  
PATENT ASSIGNEE(S): Merck & Co., Inc., USA  
SOURCE: PCT Int. Appl., 54 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004112701	A2	20041229	WO 2004-US18718	20040610
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RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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US 2007021477	A1	20070125	US 2005-560771	20051213
PRIORITY APPLN. INFO.:			US 2003-479246P	P 20030617
			WO 2004-US18718	W 20040610
OTHER SOURCE(S):	MARPAT 142:86665			

AB The invention discloses cyclohexylglycine derivs. which are inhibitors of dipeptidyl peptidase IV which are useful in the treatment or prevention of diseases in which dipeptidyl peptidase IV is involved, such as diabetes and particularly type 2 diabetes. The invention also discloses pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which the dipeptidyl peptidase IV enzyme is involved. Preparation of compds. and intermediates is described.

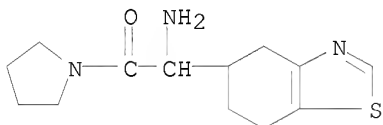
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815580-90-6D, derivs. 815580-91-7 815580-91-7D  
, derivs. 815580-92-8 815580-92-8D, derivs.  
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815580-98-4D, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL  
(Biological study); USES (Uses)

(cyclohexylglycine derivs. as dipeptidyl peptidase IV inhibitors for  
treatment or prevention of diabetes and other dipeptidyl peptidase  
IV-associated diseases)

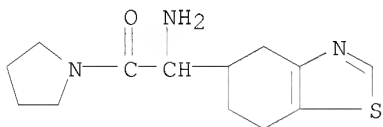
RN 815580-74-6 HCAPLUS

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(CA INDEX NAME)



RN 815580-74-6 HCAPLUS

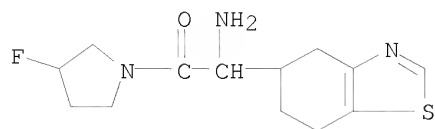
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(CA INDEX NAME)



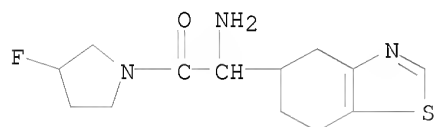
RN 815580-75-7 HCAPLUS

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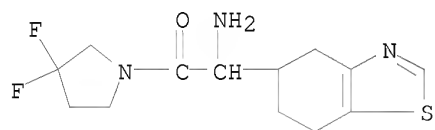
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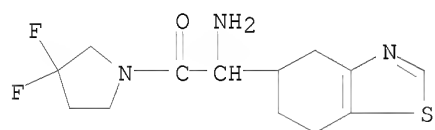
RN 815580-75-7 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3-fluoro-  
(9CI) (CA INDEX NAME)



RN 815580-76-8 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3,3-  
difluoro- (9CI) (CA INDEX NAME)



RN 815580-76-8 HCAPLUS  
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difluoro- (9CI) (CA INDEX NAME)

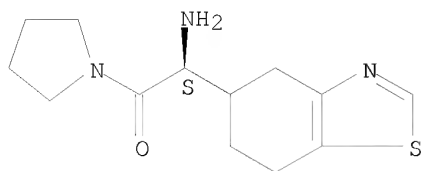


RN 815580-77-9 HCAPLUS  
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(9CI) (CA INDEX NAME)

Absolute stereochemistry.

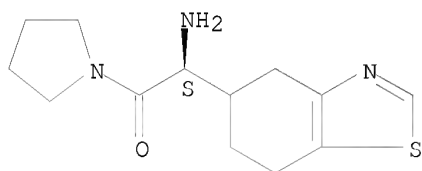


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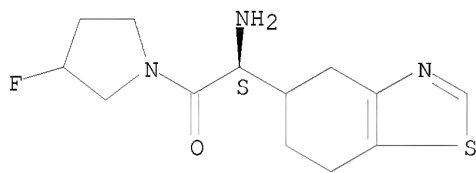
RN 815580-77-9 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



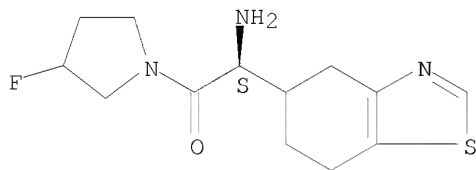
RN 815580-79-1 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3-  
fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 815580-79-1 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3-  
fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

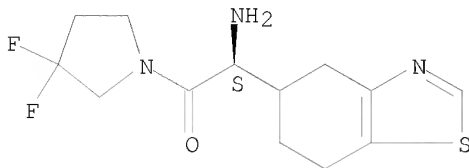


RN 815580-80-4 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3,3-  
difluoro- (9CI) (CA INDEX NAME)

11549293

difluoro- (9CI) (CA INDEX NAME)

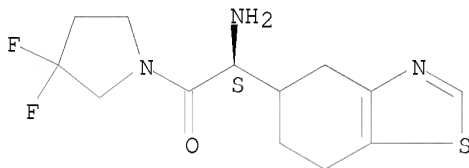
Absolute stereochemistry.



RN 815580-80-4 HCAPLUS

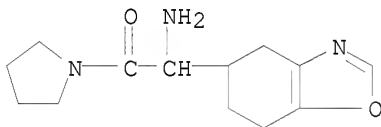
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3,3-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



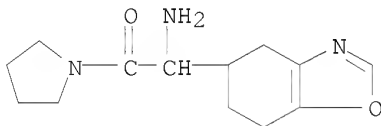
RN 815580-87-1 HCAPLUS

CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]- (9CI) (CA INDEX NAME)



RN 815580-87-1 HCAPLUS

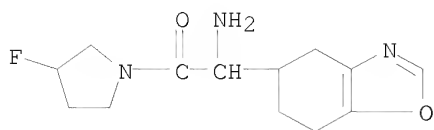
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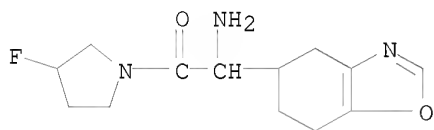
RN 815580-88-2 HCAPLUS

CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3-fluoro- (9CI) (CA INDEX NAME)

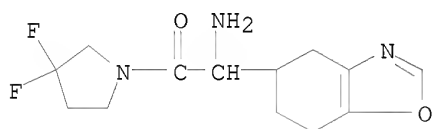
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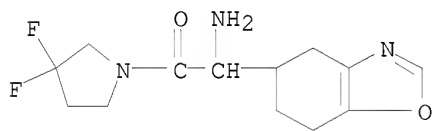
RN 815580-88-2 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3-fluoro-  
(9CI) (CA INDEX NAME)



RN 815580-89-3 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3,3-  
difluoro- (9CI) (CA INDEX NAME)

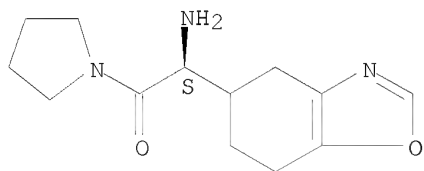


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CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3,3-  
difluoro- (9CI) (CA INDEX NAME)



RN 815580-90-6 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-  
(9CI) (CA INDEX NAME)

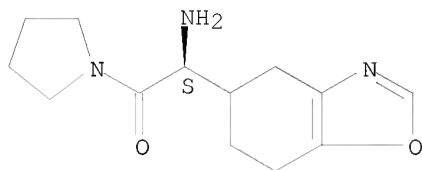
Absolute stereochemistry.



11549293

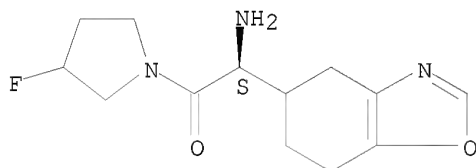
RN 815580-90-6 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



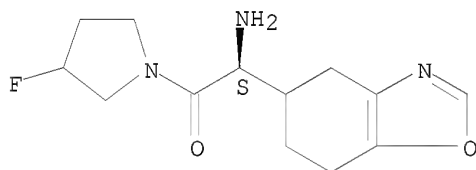
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CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3-  
fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 815580-91-7 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3-  
fluoro- (9CI) (CA INDEX NAME)

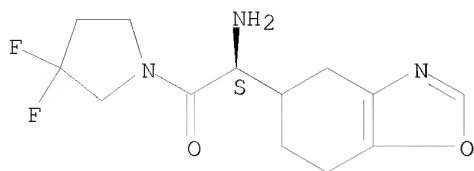
Absolute stereochemistry.



RN 815580-92-8 HCAPLUS  
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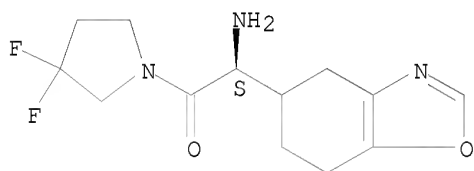
Absolute stereochemistry.

11549293

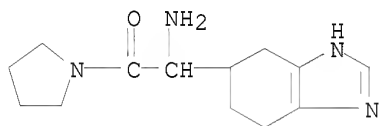


RN 815580-92-8 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3,3-difluoro- (9CI) (CA INDEX NAME)

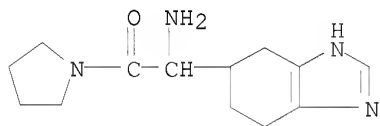
Absolute stereochemistry.



RN 815580-93-9 HCAPLUS  
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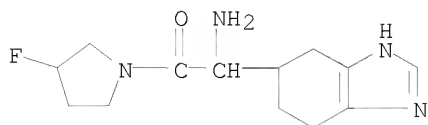


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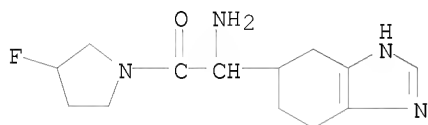


RN 815580-94-0 HCAPLUS  
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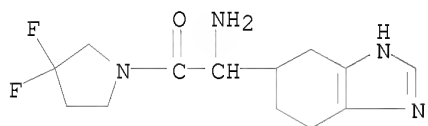
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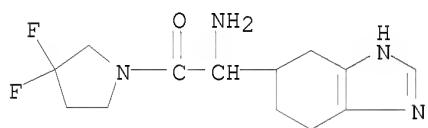
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CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-3-fluoro- (9CI) (CA INDEX NAME)



RN 815580-95-1 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-3,3-difluoro- (9CI) (CA INDEX NAME)



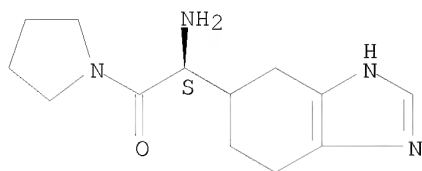
RN 815580-95-1 HCAPLUS  
CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-3,3-difluoro- (9CI) (CA INDEX NAME)



RN 815580-96-2 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

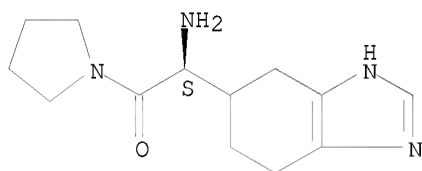
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RN 815580-96-2 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-  
(9CI) (CA INDEX NAME)

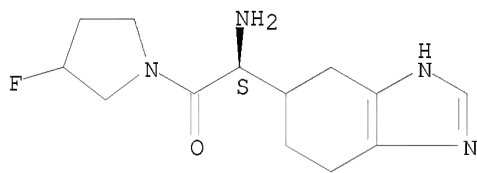
Absolute stereochemistry.



RN 815580-97-3 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-  
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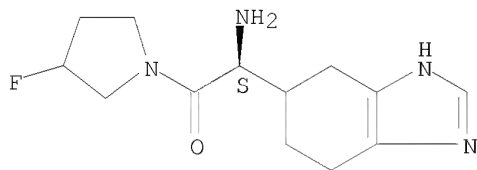
Absolute stereochemistry.



RN 815580-97-3 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-  
3-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



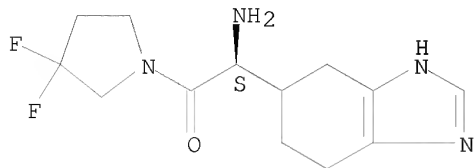
RN 815580-98-4 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-

11549293

3,3-difluoro- (9CI) (CA INDEX NAME)

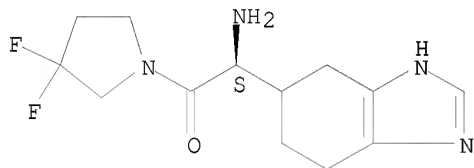
Absolute stereochemistry.



RN 815580-98-4 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-3,3-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:2864 HCAPLUS

DOCUMENT NUMBER: 140:59935

TITLE: Preparation of crystalline (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1(pyrrolidinocarbonyl)-ethyl)-benzimidazole esters and/or salts for use as antithrombotic agents

INVENTOR(S): Linz, Guenter; Sieger, Peter; Schreiner, Gunnar; Rall, Werner; Schmid, Rolf

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Gmbh & Co. Kg, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004000818	A1	20031231	WO 2003-EP6317	20030616
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,			



KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,  
 FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

DE 10227666	A1	20040108	DE 2002-10227666	20020620
CA 2485545	A1	20031231	CA 2003-2485545	20030616
AU 2003237945	A1	20040106	AU 2003-237945	20030616
EP 1529035	A1	20050511	EP 2003-735629	20030616
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JP 2006508037	T	20060309	JP 2004-514726	20030616
US 2004010026	A1	20040115	US 2003-463033	20030617
US 7169934	B2	20070130		
US 2007099974	A1	20070503	US 2006-610187	20061213
US 7294721	B2	20071113		

PRIORITY APPLN. INFO.: DE 2002-10227666 A 20020620  
 US 2002-395188P P 20020711  
 WO 2003-EP6317 W 20030616  
 US 2003-463033 A3 20030617

OTHER SOURCE(S): MARPAT 140:59935

AB The invention relates to the crystalline forms of compds. (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)-ethyl)-benzimidazole and monohydrochloride thereof, to methods for the production thereof, and to their use as medicaments having an antithrombotic action (no data). Thus, (R)-2-(4-cyanophenylaminomethyl)-1-methyl-5-[1-amino-1-(pyrrolidinecarbonyl)-ethyl]benzimidazole was simultaneously N-alkylated and CN-reduced/aminated using BrCH<sub>2</sub>C(O)OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> in N-methylpyrrolidinone, Pr acetate, and diisopropylethylamine; the resulting ester product was first isolated as the hydrochloride, and then as the 4-toluenesulfonic acid salt, which was deesterified to give the free base. The Et ester was similarly prepared. Crystal structure data were given for the free base and the monohydrochloride forms.

IT 253797-00-1

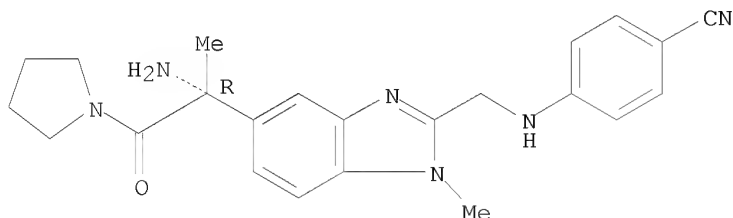
RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation and x-ray crystallog. structure of 2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)benzimidazole esters and/or salts for use as antithrombotic agents)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(4-cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

11549293

ACCESSION NUMBER: 2004:2693 HCAPLUS  
DOCUMENT NUMBER: 140:53413  
TITLE: Benzimidazole derivatives for the treatment of  
systemic inflammatory response syndrome  
INVENTOR(S): Ries, Uwe; Wienen, Wolfgang; Schuly, Uwe  
PATENT ASSIGNEE(S): Boehringer Ingelheim, Germany  
SOURCE: PCT Int. Appl., 64 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000310	A1	20031231	WO 2003-EP6318	20030616
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
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CA 2489545	A1	20031231	CA 2003-2489545	20030616
AU 2003278945	A1	20040106	AU 2003-278945	20030616
EP 1517687	A1	20050330	EP 2003-740255	20030616
EP 1517687	B1	20070620		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
JP 2006514603	T	20060511	JP 2004-514727	20030616
AT 365038	T	20070715	AT 2003-740255	20030616
ES 2289305	T3	20080201	ES 2003-740255	20030616
US 2004023975	A1	20040205	US 2003-600055	20030620
PRIORITY APPLN. INFO.:			DE 2002-10227668	A 20020620
			US 2002-400166P	P 20020801
			WO 2003-EP6318	W 20030616

OTHER SOURCE(S): MARPAT 140:53413

AB The invention discloses the use of benzimidazole derivs. for producing a medicament used for treating the systemic inflammatory response syndrome and particularly sepsis. Preparation of (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)ethyl]benzimidazole hydrochloride is described.

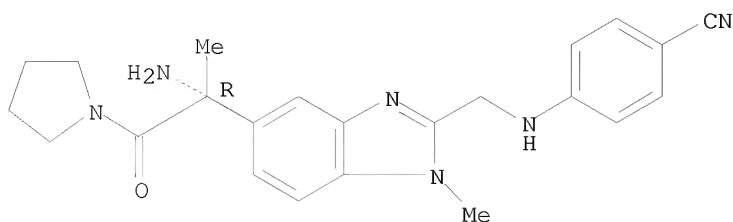
IT 253797-00-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(benzimidazole derivs. for treatment of systemic inflammatory response syndrome)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

11549293



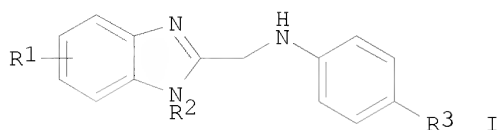
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2001:467997 HCAPLUS  
 DOCUMENT NUMBER: 135:61338  
 TITLE: Preparation of 2-(4-amidinophenylaminomethyl)benzimidazoles as antithrombotics  
 INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Huel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang  
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany  
 SOURCE: Ger. Offen., 28 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19962329	A1	20010628	DE 1999-19962329	19991223
US 2001006977	A1	20010705	US 2000-735159	20001212
US 6451832	B2	20020917		
CA 2393916	A1	20010705	CA 2000-2393916	20001216
WO 2001047896	A1	20010705	WO 2000-EP12841	20001216
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
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EP 1244636	A1	20021002	EP 2000-983342	20001216
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519129	T	20030617	JP 2001-549368	20001216
MX 2002PA06299	A	20021209	MX 2002-PA6299	20020621
US 2003004356	A1	20030102	US 2002-188952	20020703
US 6593355	B2	20030715		
PRIORITY APPLN. INFO.:			DE 1999-19962329	A 19991223
			US 2000-175163P	P 20000107
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OTHER SOURCE(S):			MARPAT 135:61338	

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GI



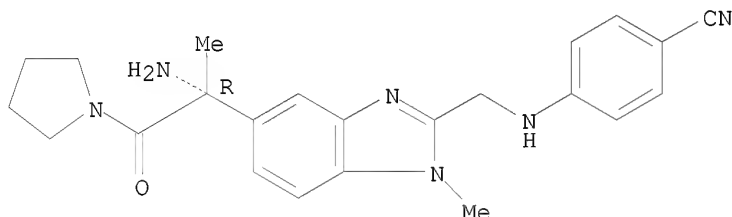
AB Title compds. [I; R1 = alkyl, fluoroalkyl, pyrrolidinocarbonylalkyl, 2,5-dihydropyrrolocarbonylalkyl, aminoalkyl, etc., R2 = alkyl; R3 = carbamidoyl, cyano, (substituted) oxadiazolyl, etc.] and stereoisomers thereof were prepared. Thus, (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(ethoxycarbonylmethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride in H2O was stirred with NaOH for 45 min. at room temperature followed by addition of HCl up to pH = 3.5 to give 100% (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride. Several I extended (doubled) the activated partial thromboplastin time (aPTT) with ED200 = 0.12-0.22  $\mu$ M.

IT 253797-00-1P 345957-57-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amidinophenylaminomethylbenzimidazoles as antithrombotics)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(4-cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

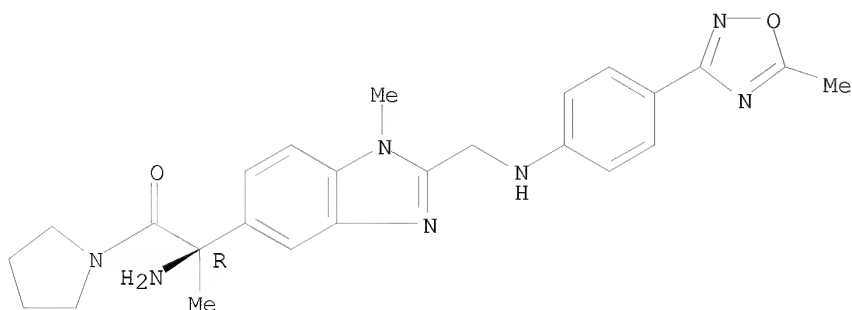
Absolute stereochemistry.



RN 345957-57-5 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:34881 HCAPLUS

DOCUMENT NUMBER: 132:78556

TITLE: Preparation of amidinophenylaminomethylenzimidazoles as antithrombotics.

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Huel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: PCT Int. Appl., 140 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

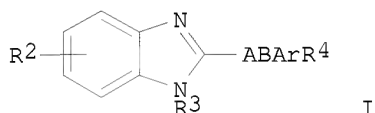
FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2000001704	A2	20000113	WO 1999-EP4531	19990701
WO 2000001704	A3	20000406		
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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DE 19857202	A1	20000615	DE 1998-19857202	19981211
DE 19912690	A1	20000921	DE 1999-19912690	19990320
CA 2337804	A1	20000113	CA 1999-2337804	19990701
AU 9949033	A	20000124	AU 1999-49033	19990701
AU 763094	B2	20030710		
BR 9911826	A	20010327	BR 1999-11826	19990701
EP 1095025	A2	20010502	EP 1999-932765	19990701
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EE 200100009	A	20020617	EE 2001-9	19990701
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JP 2002519429	T	20020702	JP 2000-558106	19990701
AT 229511	T	20021215	AT 1999-932765	19990701
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SK 283744	B6	20031202	SK 2001-8	19990701
MX 2000PA12819	A	20040603	MX 2000-PA12819	20001219
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NO 2001000028	A	20010103	NO 2001-28	20010103
BG 105111	A	20011231	BG 2001-105111	20010103
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PRIORITY APPLN. INFO.:			DE 1998-19829964	A 19980704
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OTHER SOURCE(S):			MARPAT 132:78556	
GI				



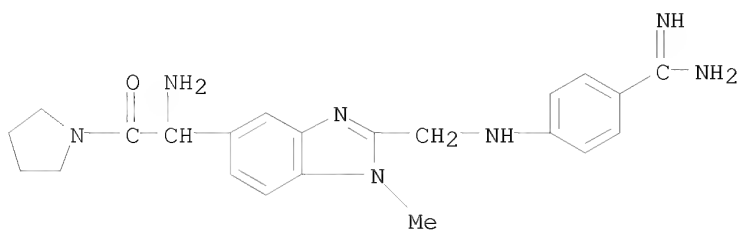
AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, pyrazinylene, pyrimidinylene, pyridazinylene; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, SO, SO<sub>2</sub>; R<sub>2</sub> = R<sub>1</sub>COX, etc.; R<sub>1</sub> = alkoxy, amino, alkylamino, dialkylamino, etc.; X = cycloalkylene; R<sub>3</sub> = H, alkyl; R<sub>4</sub> = cyano, (substituted) amidino], were prepared. Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride (multistep preparation given) showed aPTT (partial thrombin time) ED<sub>200</sub> = 0.12 μM.

IT 253430-83-0P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of amidinophenylaminomethylbenzimidazoles as antithrombotics)

RN 253430-83-0 HCAPLUS

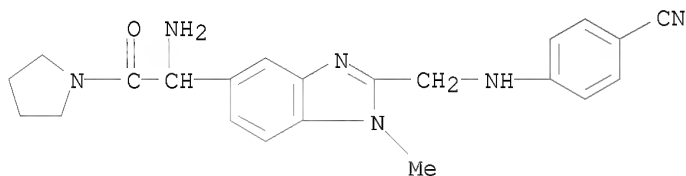
CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)

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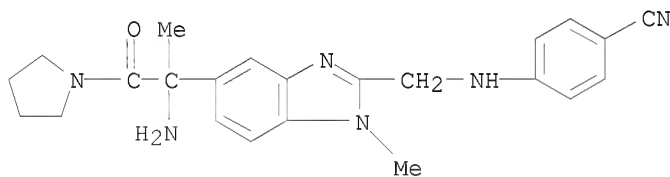


● HCl

IT 253431-62-8P 253431-65-1P 253796-87-1P  
253797-00-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(preparation of amidinophenylaminomethylenzimidazoles as antithrombotics)  
RN 253431-62-8 HCAPLUS  
CN Pyrrolidine, 1-[amino[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-  
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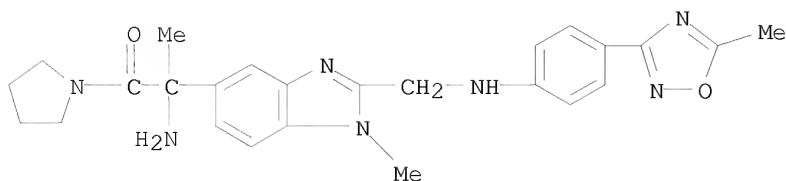


RN 253431-65-1 HCAPLUS  
CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-  
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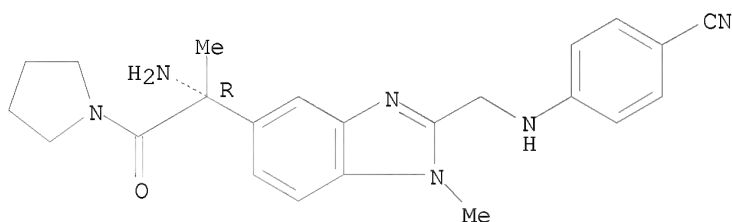
RN 253796-87-1 HCAPLUS  
CN Pyrrolidine, 1-[2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-  
yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA  
INDEX NAME)

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RN 253797-00-1 HCAPLUS  
 CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L12 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2000:15648 HCAPLUS  
 DOCUMENT NUMBER: 132:64257  
 TITLE: Preparation of amidinophenylaminomethylbenzimidazoles and related compounds as antithrombotics.  
 INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Haeu, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang  
 PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany  
 SOURCE: Ger. Offen., 38 pp.  
 CODEN: GWXXBX  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19829964	A1	20000105	DE 1998-19829964	19980704
US 6248770	B1	20010619	US 1999-338970	19990624
TW 248435	B	20060201	TW 1999-88110926	19990629
CA 2337804	A1	20000113	CA 1999-2337804	19990701
WO 2000001704	A2	20000113	WO 1999-EP4531	19990701
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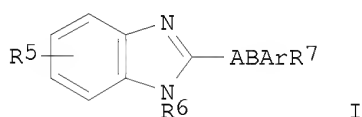
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 RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,



ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
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AU 9949033	A	20000124	AU 1999-49033	19990701
AU 763094	B2	20030710		
BR 9911826	A	20010327	BR 1999-11826	19990701
EP 1095025	A2	20010502	EP 1999-932765	19990701
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TR 200100148	T2	20010921	TR 2001-148	19990701
EE 200100009	A	20020617	EE 2001-9	19990701
EE 4236	B1	20040216		
HU 2002000710	A2	20020629	HU 2002-710	19990701
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SK 283744	B6	20031202	SK 2001-8	19990701
ZA 2000007624	A	20010716	ZA 2000-7624	20001219
MX 2000PA12819	A	20040603	MX 2000-PA12819	20001219
IN 2000MN00760	A	20070615	IN 2000-MN760	20001221
NO 2001000028	A	20010103	NO 2001-28	20010103
BG 105111	A	20011231	BG 2001-105111	20010103
HR 2001000007	A1	20011231	HR 2001-7	20010103
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HK 1036976	A1	20041119	HK 2001-107199	20011015
PRIORITY APPLN. INFO.:				
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			US 1998-92215P	P 19980709
			DE 1998-19857202	A 19981211
			DE 1999-19912690	A 19990320
			WO 1999-EP4531	W 19990701

OTHER SOURCE(S): MARPAT 132:64257  
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AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, etc.; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, sulfinyl, sulfonyl, etc.; R<sub>5</sub> = R<sub>1</sub>COX; X = cycloalkylene; R<sub>1</sub> = (substituted) (di)alkylamino, cycloalkyleneimino, morpholino, piperazino; R<sub>5</sub> = H, alkyl; R<sub>7</sub> = cyano, (substituted) amidino], were prepared Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride [prepared starting from 1-(4-chlorophenyl)-1-cyclopropanecarboxylic acid] showed aPTT (partial thrombin time) ED<sub>200</sub> = 0.12 μM.

IT 253430-83-0P

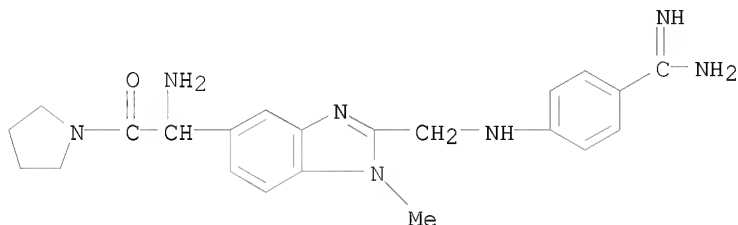
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

11549293

(preparation of amidinophenylaminomethylbenzimidazoles and related compds.  
as antithrombotics)

RN 253430-83-0 HCAPLUS

CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

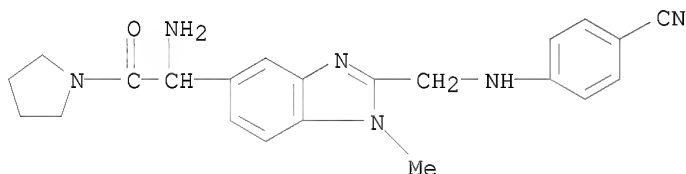
IT 253431-62-8P 253431-65-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of amidinophenylaminomethylbenzimidazoles and related compds.  
as antithrombotics)

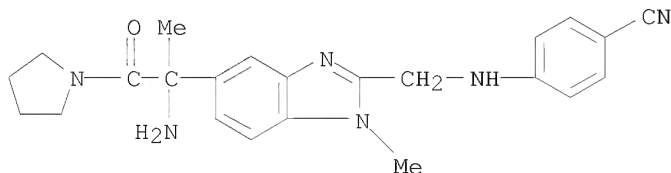
RN 253431-62-8 HCAPLUS

CN Pyrrolidine, 1-[amino[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 253431-65-1 HCAPLUS

CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)



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=> d l13 ibib abs hitstr tot

L13 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:2864 HCAPLUS

DOCUMENT NUMBER: 140:59935

TITLE: Preparation of crystalline (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)-ethyl)-benzimidazole esters and/or salts for use as antithrombotic agents

INVENTOR(S): Linz, Guenter; Sieger, Peter; Schreiner, Gunnar; Rall, Werner; Schmid, Rolf

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma Gmbh & Co. Kg, Germany

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004000818	A1	20031231	WO 2003-EP6317	20030616 <--
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
DE 10227666	A1	20040108	DE 2002-10227666	20020620
CA 2485545	A1	20031231	CA 2003-2485545	20030616 <--
AU 2003237945	A1	20040106	AU 2003-237945	20030616
EP 1529035	A1	20050511	EP 2003-735629	20030616
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JP 2006508037	T	20060309	JP 2004-514726	20030616
US 2004010026	A1	20040115	US 2003-463033	20030617
US 7169934	B2	20070130		
US 2007099974	A1	20070503	US 2006-610187	20061213
US 7294721	B2	20071113		
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			US 2002-395188P	P 20020711
			WO 2003-EP6317	W 20030616
			US 2003-463033	A3 20030617

OTHER SOURCE(S): MARPAT 140:59935

AB The invention relates to the crystalline forms of compds. (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)-ethyl)-benzimidazole and monohydrochloride thereof, to methods for the production thereof, and to their use as medicaments having an antithrombotic action (no data). Thus, (R)-2-(4-cyanophenylaminomethyl)-1-methyl-5-[1-amino-1-(pyrrolidineocarbonyl)-ethyl]benzimidazole was simultaneously N-alkylated and CN-reduced/aminated

using BrCH<sub>2</sub>C(O)OCH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub> in N-methylpyrrolidinone, Pr acetate, and diisopropylethylamine; the resulting ester product was first isolated as the hydrochloride, and then as the 4-toluenesulfonic acid salt, which was deesterified to give the free base. The Et ester was similarly prepared. Crystal structure data were given for the free base and the monohydrochloride forms.

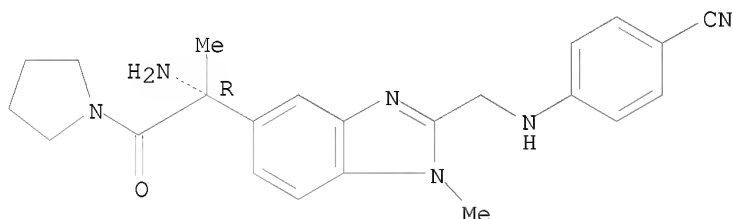
IT 253797-00-1

RL: RCT (Reactant); RACT (Reactant or reagent)  
(preparation and x-ray crystallog. structure of 2-(4-amidinophenylaminomethyl)-1-methyl-5-(1-(carboxymethylamino)benzimidazole esters and/or salts for use as antithrombotic agents)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:2693 HCAPLUS

DOCUMENT NUMBER: 140:53413

TITLE: Benzimidazole derivatives for the treatment of systemic inflammatory response syndrome

INVENTOR(S): Ries, Uwe; Wienen, Wolfgang; Schuly, Uwe

PATENT ASSIGNEE(S): Boehringer Ingelheim, Germany

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004000310	A1	20031231	WO 2003-EP6318	20030616 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

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DE 10227668	A1	20040108	DE 2002-10227668	20020620
CA 2489545	A1	20031231	CA 2003-2489545	20030616 <--
AU 2003278945	A1	20040106	AU 2003-278945	20030616
EP 1517687	A1	20050330	EP 2003-740255	20030616
EP 1517687	B1	20070620		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006514603	T	20060511	JP 2004-514727	20030616
AT 365038	T	20070715	AT 2003-740255	20030616
ES 2289305	T3	20080201	ES 2003-740255	20030616
US 2004023975	A1	20040205	US 2003-600055	20030620
PRIORITY APPLN. INFO.:			DE 2002-10227668	A 20020620
			US 2002-400166P	P 20020801
			WO 2003-EP6318	W 20030616

OTHER SOURCE(S): MARPAT 140:53413

AB The invention discloses the use of benzimidazole derivs. for producing a medicament used for treating the systemic inflammatory response syndrome and particularly sepsis. Preparation of (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-(pyrrolidinocarbonyl)ethyl]benzimidazole hydrochloride is described.

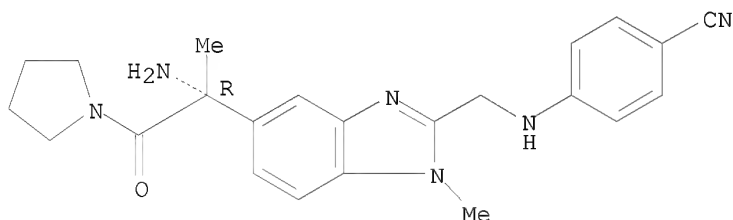
IT 253797-00-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(benzimidazole derivs. for treatment of systemic inflammatory response syndrome)

RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[[4-cyanophenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:467997 HCAPLUS

DOCUMENT NUMBER: 135:61338

TITLE: Preparation of 2-(4-amidinophenylaminomethyl)benzimidazoles as antithrombotics

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Hael, Norbert; Priepeke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: Ger. Offen., 28 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

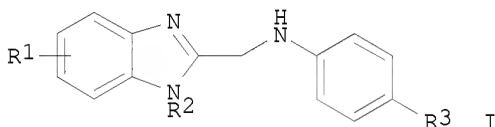
LANGUAGE: German

11549293

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19962329	A1	20010628	DE 1999-19962329	19991223 <--
US 2001006977	A1	20010705	US 2000-735159	20001212 <--
US 6451832	B2	20020917		
CA 2393916	A1	20010705	CA 2000-2393916	20001216 <--
WO 2001047896	A1	20010705	WO 2000-EP12841	20001216 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1244636	A1	20021002	EP 2000-983342	20001216 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003519129	T	20030617	JP 2001-549368	20001216 <--
MX 2002PA06299	A	20021209	MX 2002-PA6299	20020621 <--
US 2003004356	A1	20030102	US 2002-188952	20020703 <--
US 6593355	B2	20030715		
PRIORITY APPLN. INFO.:			DE 1999-19962329	A 19991223
			US 2000-175163P	P 20000107
			US 2000-735159	A1 20001212
			WO 2000-EP12841	W 20001216

OTHER SOURCE(S): MARPAT 135:61338  
GI



AB Title compds. [I; R1 = alkyl, fluoroalkyl, pyrrolidinocarbonylalkyl, 2,5-dihydropyrrolocarbonylalkyl, aminoalkyl, etc., R2 = alkyl; R3 = carbamidoyl, cyano, (substituted) oxadiazolyl, etc.] and stereoisomers thereof were prepared. Thus, (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(ethoxycarbonylmethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride in H<sub>2</sub>O was stirred with NaOH for 45 min. at room temperature followed by addition of HCl up to pH = 3.5 to give 100% (R)-2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(carboxymethylamino)-1-[(R,S)-2-methylpyrrolidinocarbonyl]ethyl]benzimidazole dihydrochloride. Several I extended (doubled) the activated partial thromboplastin time (aPTT) with ED<sub>200</sub> = 0.12-0.22 µM.

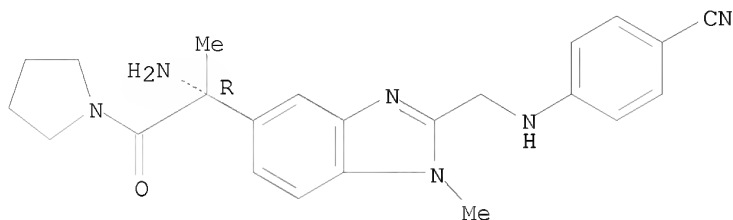
IT 253797-00-1P 345957-57-5P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amidinophenylaminomethylbenzimidazoles as antithrombotics)

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RN 253797-00-1 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[[4-(4-cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

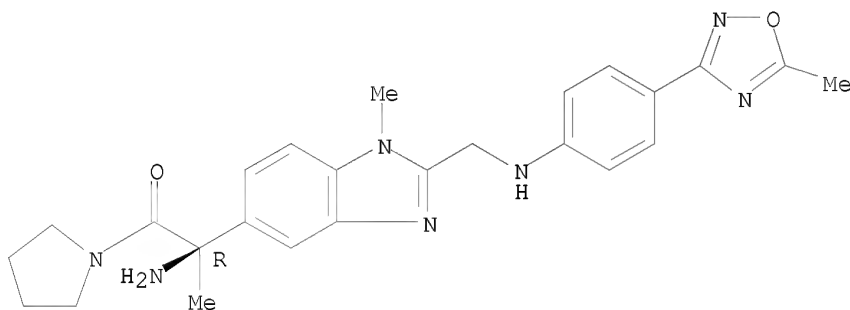
Absolute stereochemistry.



RN 345957-57-5 HCAPLUS

CN Pyrrolidine, 1-[(2R)-2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:34881 HCAPLUS

DOCUMENT NUMBER: 132:78556

TITLE: Preparation of amidinophenylaminomethylenzimidazoles as antithrombotics.

INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Huel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang

PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany

SOURCE: PCT Int. Appl., 140 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

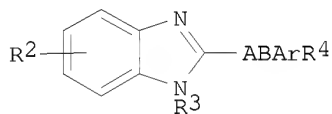
LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000001704	A2	20000113	WO 1999-EP4531	19990701 <--

WO 2000001704 A3 20000406  
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,  
DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,  
JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,  
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,  
TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW  
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
DE 19829964 A1 20000105 DE 1998-19829964 19980704 <--  
DE 19857202 A1 20000615 DE 1998-19857202 19981211 <--  
DE 19912690 A1 20000921 DE 1999-19912690 19990320 <--  
CA 2337804 A1 20000113 CA 1999-2337804 19990701 <--  
AU 9949033 A 20000124 AU 1999-49033 19990701 <--  
AU 763094 B2 20030710  
BR 9911826 A 20010327 BR 1999-11826 19990701 <--  
EP 1095025 A2 20010502 EP 1999-932765 19990701 <--  
EP 1095025 B1 20021211  
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
IE, SI, LT, LV, FI, RO  
EE 200100009 A 20020617 EE 2001-9 19990701 <--  
EE 4236 B1 20040216  
JP 2002519429 T 20020702 JP 2000-558106 19990701 <--  
AT 229511 T 20021215 AT 1999-932765 19990701 <--  
NZ 509625 A 20030829 NZ 1999-509625 19990701 <--  
SK 283744 B6 20031202 SK 2001-8 19990701 <--  
MX 2000PA12819 A 20040603 MX 2000-PA12819 20001219  
IN 2000MN00760 A 20070615 IN 2000-MN760 20001221  
NO 2001000028 A 20010103 NO 2001-28 20010103 <--  
BG 105111 A 20011231 BG 2001-105111 20010103 <--  
HR 2001000007 A1 20011231 HR 2001-7 20010103 <--  
HR 2001000007 B1 20030430  
HK 1036976 A1 20041119 HK 2001-107199 20011015  
PRIORITY APPLN. INFO.: DE 1998-19829964 A 19980704  
DE 1998-19857202 A 19981211  
DE 1999-19912690 A 19990320  
WO 1999-EP4531 W 19990701  
OTHER SOURCE(S): MARPAT 132:78556  
GI



AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, pyrazinylene, pyrimidinylene, pyridazinylene; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, SO, SO<sub>2</sub>; R<sub>2</sub> = R<sub>1</sub>COX, etc.; R<sub>1</sub> = alkoxy, amino, alkylamino, dialkylamino, etc.; X = cycloalkylene; R<sub>3</sub> = H, alkyl; R<sub>4</sub> = cyano, (substituted) amidino], were prepared Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride (multistep preparation given) showed aPTT (partial thrombin time) ED<sub>200</sub> = 0.12 µM.  
IT 253430-83-0P

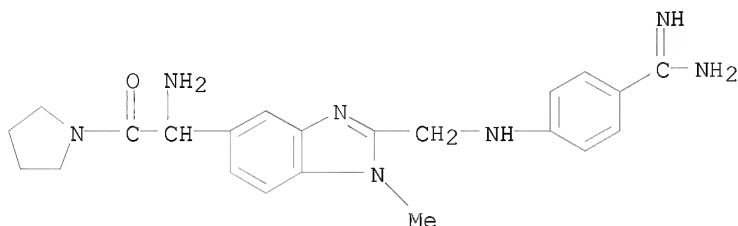


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RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of amidinophenylaminomethylenzimidazoles as antithrombotics)

RN 253430-83-0 HCAPLUS

CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)



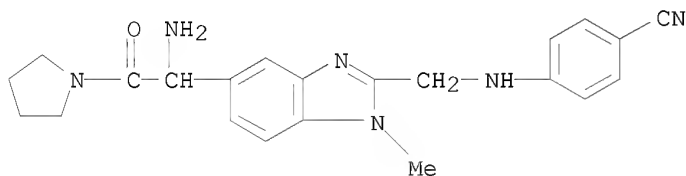
● HCl

IT 253431-62-8P 253431-65-1P 253796-87-1P  
253797-00-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amidinophenylaminomethylenzimidazoles as antithrombotics)

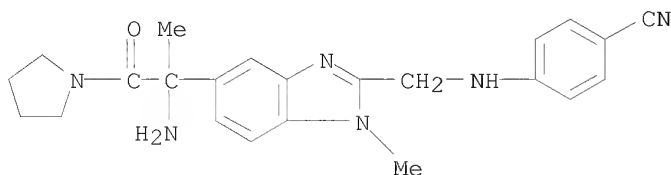
RN 253431-62-8 HCAPLUS

CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]- (9CI) (CA INDEX NAME)



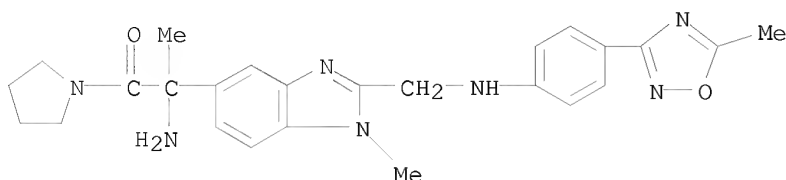
RN 253431-65-1 HCAPLUS

CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)



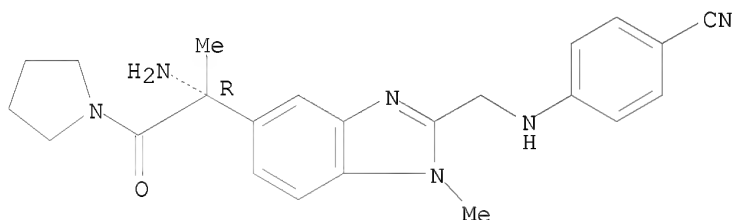
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RN 253796-87-1 HCAPLUS  
CN Pyrrolidine, 1-[2-amino-2-[1-methyl-2-[[[4-(5-methyl-1,2,4-oxadiazol-3-yl)phenyl]amino]methyl]-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)



RN 253797-00-1 HCAPLUS  
CN Pyrrolidine, 1-[(2R)-2-amino-2-[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L13 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN  
ACCESSION NUMBER: 2000:15648 HCAPLUS  
DOCUMENT NUMBER: 132:64257  
TITLE: Preparation of amidinophenylaminomethylbenzimidazoles and related compounds as antithrombotics.  
INVENTOR(S): Ries, Uwe; Kauffmann, Iris; Huel, Norbert; Priepke, Henning; Nar, Herbert; Stassen, Jean Marie; Wienen, Wolfgang  
PATENT ASSIGNEE(S): Boehringer Ingelheim Pharma K.-G., Germany  
SOURCE: Ger. Offen., 38 pp.  
CODEN: GWXXBX  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19829964	A1	20000105	DE 1998-19829964	19980704 <--
US 6248770	B1	20010619	US 1999-338970	19990624 <--
TW 248435	B	20060201	TW 1999-88110926	19990629
CA 2337804	A1	20000113	CA 1999-2337804	19990701 <--
WO 2000001704	A2	20000113	WO 1999-EP4531	19990701 <--
WO 2000001704	A3	20000406		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,  
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JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,  
MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,  
TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW

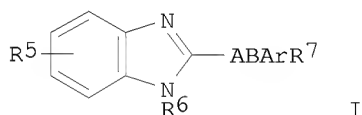
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,  
ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,  
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

AU 9949033	A	20000124	AU 1999-49033	19990701 <--
AU 763094	B2	20030710		
BR 9911826	A	20010327	BR 1999-11826	19990701 <--
EP 1095025	A2	20010502	EP 1999-932765	19990701 <--
EP 1095025	B1	20021211		
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TR 200100148	T2	20010921	TR 2001-148	19990701 <--
EE 200100009	A	20020617	EE 2001-9	19990701 <--
EE 4236	B1	20040216		
HU 2002000710	A2	20020629	HU 2002-710	19990701 <--
HU 2002000710	A3	20030528		
JP 2002519429	T	20020702	JP 2000-558106	19990701 <--
AT 229511	T	20021215	AT 1999-932765	19990701 <--
PT 1095025	T	20030430	PT 1999-932765	19990701 <--
ES 2188192	T3	20030616	ES 1999-932765	19990701 <--
NZ 509625	A	20030829	NZ 1999-509625	19990701 <--
SK 283744	B6	20031202	SK 2001-8	19990701 <--
ZA 2000007624	A	20010716	ZA 2000-7624	20001219 <--
MX 2000PA12819	A	20040603	MX 2000-PA12819	20001219
IN 2000MN00760	A	20070615	IN 2000-MN760	20001221
NO 2001000028	A	20010103	NO 2001-28	20010103 <--
BG 105111	A	20011231	BG 2001-105111	20010103 <--
HR 2001000007	A1	20011231	HR 2001-7	20010103 <--
HR 2001000007	B1	20030430		
HK 1036976	A1	20041119	HK 2001-107199	20011015

PRIORITY APPLN. INFO.:

DE 1998-19829964	A	19980704
US 1998-92215P	P	19980709
DE 1998-19857202	A	19981211
DE 1999-19912690	A	19990320
WO 1999-EP4531	W	19990701

OTHER SOURCE(S): MARPAT 132:64257  
GI



AB Title compds. [I; Ar = (substituted) phenylene, naphthylene, thienylene, thiazolylene, pyridinylene, etc.; A = alkylene; B = O, S, CH<sub>2</sub>, CO, imino, sulfinyl, sulfonyl, etc.; R<sub>5</sub> = R<sub>1</sub>COX; X = cycloalkylene; R<sub>1</sub> = (substituted) (di)alkylamino, cycloalkyleneimino, morpholino, piperazino; R<sub>5</sub> = H, alkyl; R<sub>7</sub> = cyano, (substituted) amidino], were prepared Thus, 2-(4-amidinophenylaminomethyl)-1-methyl-5-[1-(pyrrolidin-1-ylcarbonyl)cyclopropyl]benzimidazole hydrochloride [prepared starting from

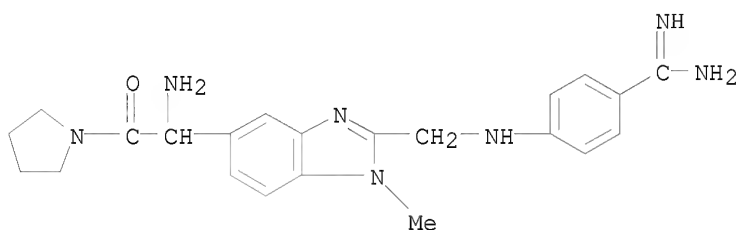
11549293

1-(4-chlorophenyl)-1-cyclopropanecarboxylic acid] showed aPTT (partial thrombin time) ED200 = 0.12  $\mu$ M.

IT 253430-83-0P  
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(preparation of amidinophenylaminomethylbenzimidazoles and related compds. as antithrombotics)

RN 253430-83-0 HCAPLUS

CN Pyrrolidine, 1-[amino[2-[[[4-(aminoiminomethyl)phenyl]amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]-, monohydrochloride (9CI) (CA INDEX NAME)

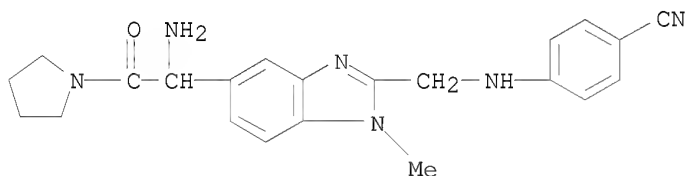


● HCl

IT 253431-62-8P 253431-65-1P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of amidinophenylaminomethylbenzimidazoles and related compds. as antithrombotics)

RN 253431-62-8 HCAPLUS

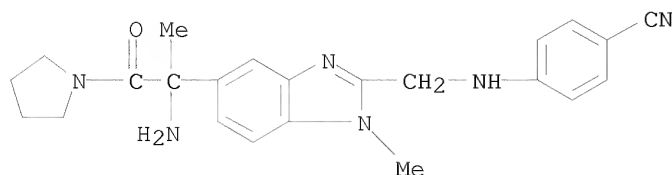
CN Pyrrolidine, 1-[amino[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]acetyl]- (9CI) (CA INDEX NAME)



RN 253431-65-1 HCAPLUS

CN Pyrrolidine, 1-[2-amino-2-[2-[[[4-(cyanophenyl)amino]methyl]-1-methyl-1H-benzimidazol-5-yl]-1-oxopropyl]- (9CI) (CA INDEX NAME)

11549293



=> d l14 ibib abs hitstr tot

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:1156435 HCAPLUS

DOCUMENT NUMBER: 142:86665

TITLE: Cyclohexylglycine derivatives as dipeptidyl  
peptidase IV inhibitors for the treatment or  
prevention of diabetes and other dipeptidyl  
peptidase IV-associated diseases

INVENTOR(S): Edmondson, Scott D.; Mastracchio, Anthony; Parmee,  
Emma R.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004112701	A2	20041229	WO 2004-US18718	20040610
WO 2004112701	A3	20050210		
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US 2007021477	A1	20070125	US 2005-560771	20051213
PRIORITY APPLN. INFO.:			US 2003-479246P	P 20030617
			WO 2004-US18718	W 20040610

OTHER SOURCE(S): MARPAT 142:86665

AB The invention discloses cyclohexylglycine derivs. which are inhibitors of dipeptidyl peptidase IV which are useful in the treatment or prevention of diseases in which dipeptidyl peptidase IV is involved, such as diabetes and particularly type 2 diabetes. The invention also discloses pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which the dipeptidyl peptidase IV enzyme is involved. Preparation of compds. and intermediates is described.

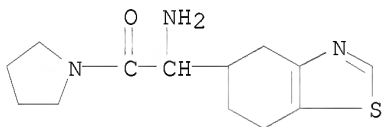
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RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(cyclohexylglycine derivs. as dipeptidyl peptidase IV inhibitors for treatment or prevention of diabetes and other dipeptidyl peptidase IV-associated diseases)

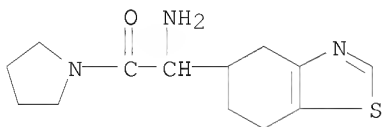
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(CA INDEX NAME)



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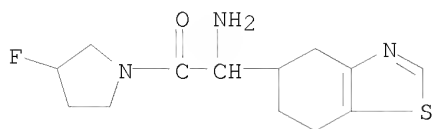
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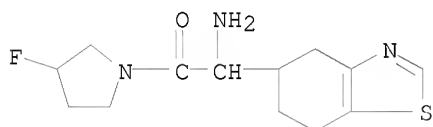
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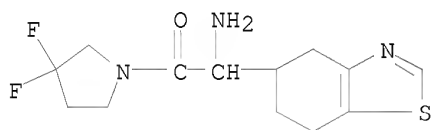
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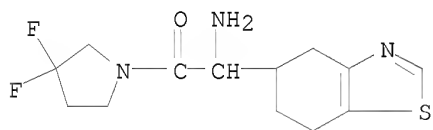
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(9CI) (CA INDEX NAME)



RN 815580-76-8 HCAPLUS  
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difluoro- (9CI) (CA INDEX NAME)



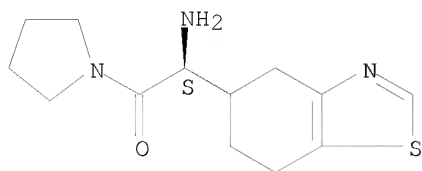
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RN 815580-77-9 HCAPLUS  
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(9CI) (CA INDEX NAME)

Absolute stereochemistry.

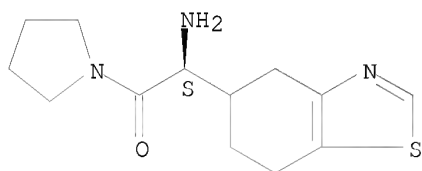
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RN 815580-77-9 HCAPLUS

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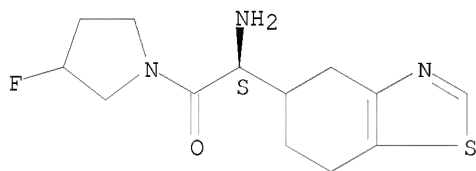
Absolute stereochemistry.



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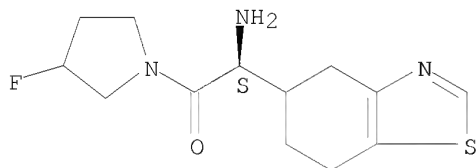
Absolute stereochemistry.



RN 815580-79-1 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzothiazolyl)acetyl]-3-  
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Absolute stereochemistry.



RN 815580-80-4 HCAPLUS

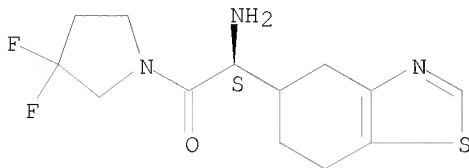
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difluoro- (9CI) (CA INDEX NAME)

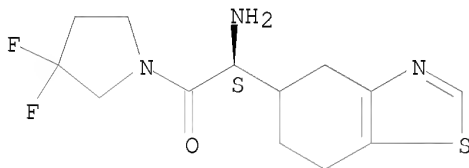
Absolute stereochemistry.



RN 815580-80-4 HCAPLUS

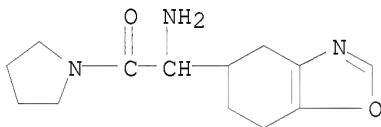
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Absolute stereochemistry.



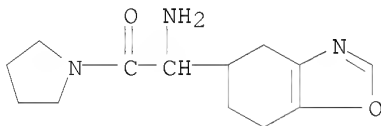
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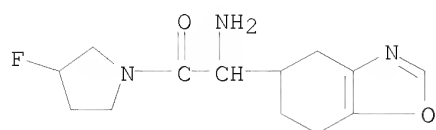
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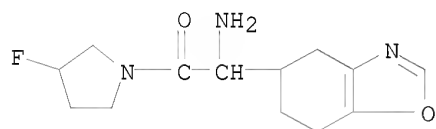
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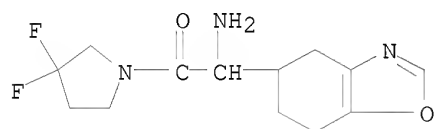
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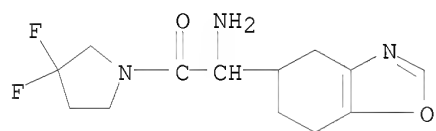
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CN Pyrrolidine, 1-[amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-3-fluoro-  
(9CI) (CA INDEX NAME)



RN 815580-89-3 HCAPLUS  
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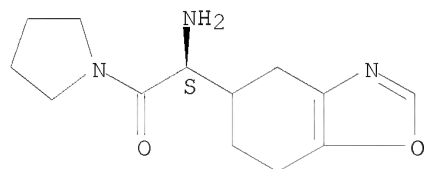


RN 815580-89-3 HCAPLUS  
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difluoro- (9CI) (CA INDEX NAME)



RN 815580-90-6 HCAPLUS  
CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-5-benzoxazolyl)acetyl]-  
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

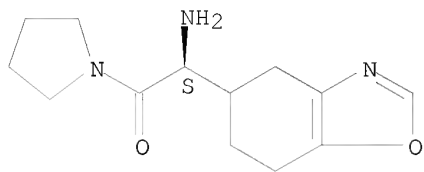


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RN 815580-90-6 HCAPLUS

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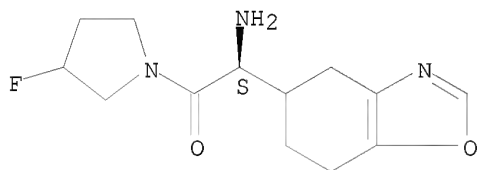
Absolute stereochemistry.



RN 815580-91-7 HCAPLUS

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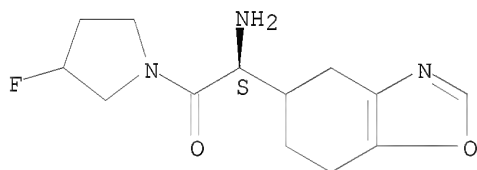
Absolute stereochemistry.



RN 815580-91-7 HCAPLUS

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Absolute stereochemistry.

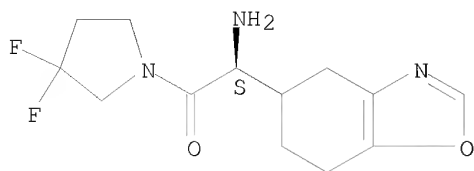


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Absolute stereochemistry.

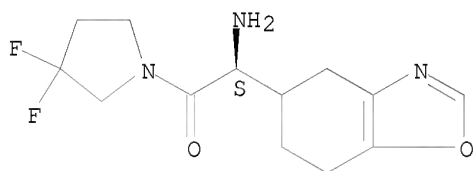
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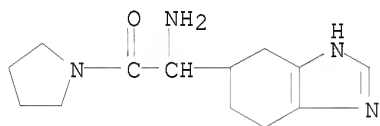
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Absolute stereochemistry.



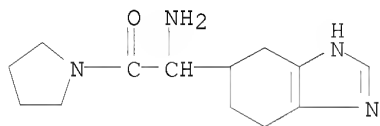
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RN 815580-93-9 HCAPLUS

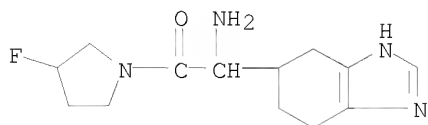
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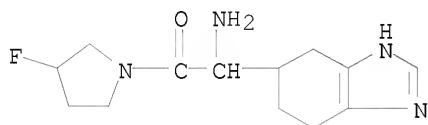
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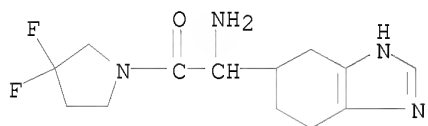
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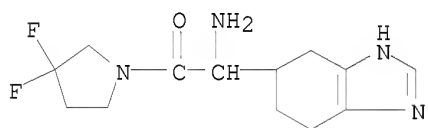
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RN 815580-95-1 HCAPLUS  
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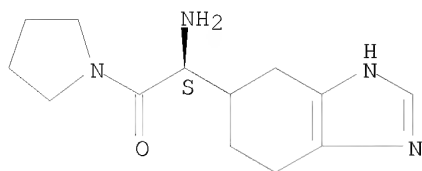
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RN 815580-96-2 HCAPLUS  
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Absolute stereochemistry.

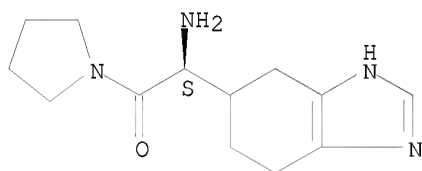
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RN 815580-96-2 HCAPLUS

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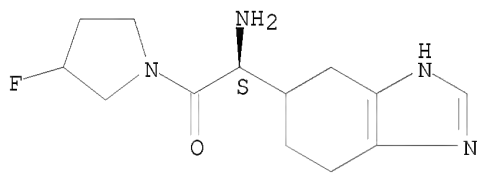
Absolute stereochemistry.



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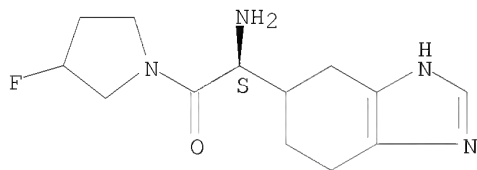
Absolute stereochemistry.



RN 815580-97-3 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-  
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Absolute stereochemistry.



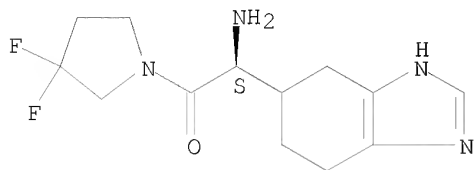
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3,3-difluoro- (9CI) (CA INDEX NAME)

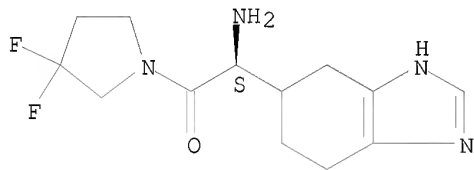
Absolute stereochemistry.



RN 815580-98-4 HCAPLUS

CN Pyrrolidine, 1-[(2S)-amino(4,5,6,7-tetrahydro-1H-benzimidazol-5-yl)acetyl]-  
3,3-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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671.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-9.60

-13.60

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